

# ARNAV KUMAR

Address: 3C - 02 - 04, 52 Nanyang Walk, Singapore - 639928

E-Mail: [arnav1@e.ntu.edu.sg](mailto:arnav1@e.ntu.edu.sg) | [arnavkumar24@gmail.com](mailto:arnavkumar24@gmail.com)

Phone: +65 8499 8569 | [GitHub](#) : [radzinzki](#) | [LinkedIn](#) | [Site](#)

## Education

**Nanyang Technological University**  
Aug 2010 - Jun 2014

- B. Eng. (Hons.) in Computer Science with a GPA of **4.78/5**.
- Minor in Business, Specialization in Intelligent Systems.
- **Dean's List** - Academic Year 2012-13, Academic Year 2013-14.
- Awarded **President's Research Scholarship** - offered to the top 5% of the cohort.
- Represented NTU in International Collegiate Programming Competition (ACM-ICPC) Regionals 2011 held in Kuala Lumpur as a part of a 18 member contingent.
- Indian School Certification (ISC) - 91%. (A - Level Equivalent)
- Indian School Certificate Examination Result (ICSE) - 94%. (O - Level Equivalent)

**St. James' School**  
Graduated in May 2010

## Work Experience

**IBM Corporation**  
Software Engineering Intern  
May 2013 - Aug 2013

- Developed core components for a mobile port of IBM Security Access Manager for Enterprise Single Sign - On (ISAM-ESSOm) for providing single sign - on capabilities on the iOS platform for enterprise productivity. [[App Store link](#)]
- Built the fully-featured, extensible, UIWebView - based embedded browser which provides Web single sign - on capabilities within the App.

**IBM Corporation**  
Software Engineering Intern  
Jun 2012 - Dec 2012

- Development - Prototyped new mobile solutions aimed at enhancing user experience and security of sensitive user information. This evolved into ISAM-ESSOm.
- Quality Assurance - Configuration and troubleshooting server side components of a new solution for Privileged Identity Management. Automated the user-creation process during load-testing, reducing time required at this stage by 66%.

## Project Work (Academic)

**Final Year Project**  
Aug 2013 - May 2014

- Developed an app demonstrating interaction with real environments virtually.
- Interfaced a Kinect, an iPhone, and a projector with a server to process motion.

**Data Mining**  
Aug 2013 - Oct 2013

- Led a team of 6 to develop an application (with a Django backend) to generate a timeline for the flow of Twitter hashtags across the globe and track local trends. [[source](#)]

**Natural Language Processing**  
Aug 2013 - Oct 2013

- Developed an application (with a Java + Flask backend) to summarize and analyse the sentiment of Twitter users about a subjects after extracting descriptive phrases from related tweets. [[source](#)]

**Software Engineering**  
Jan 2013 - May 2013

- Led a team of 6 develop dBuggle, an iOS word-game for children with special needs, built using the cocos2d framework. (1000+ downloads) [[App Store link](#)]

## Project Work (Non - Academic)

**TwitterCLDR**  
June 2014 - Present

- Regular contributor to Twitter's open source project for data localization. Implemented features such as Text Segmentation, Unicode Regex Parser, etc. [[GitHub](#)]

**Pebble Music Tweeter**

- Watchapp + iOS app using the Twitter API, Last.FM API and Pebble SDK to tweet music info from the watch. [[App Store link](#)][[source](#)] (1200+ downloads)

## Skills and Coursework

**Relevant Courses**

- Object Oriented Programming & Data Structures, Software Engineering, Database Systems, Operating Systems, Algorithms, Advanced Algorithms, Artificial Intelligence, Natural Language Processing, Data Mining.

**Technical Skills**

- Java, Objective-C, Python, Javascript, HTML/CSS and others.

## Interests and Extra - Curricular Activities

**Extra - Curricular Activities**

- **President - NTU Open Source Society** - Headed the management committee of the special interest club that promotes the hacker culture. (AY2012-13)
- **IT (Media) Officer - Computer Engineering Club (Student Council of the School)** - Steered the annual branding initiative, redesigned the School's publication (quadrupled reach to 2000) and organised the school's first Hackathon. (AY2012-13)

**Interests**

- Reading, Writing, Sports (football, rugby). Played Rugby competitively for 8 years.
- Member of the NTU Rugby Squad between Sept 2010 and Aug 2011.